

B.5155017

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Page 1 of 5

NOV 28 2000

1655

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RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/214,645

DATE: 11/16/2000
TIME: 12:14:43

Input Set : A:\DIVER1220-2.TXT
Output Set: N:\CRF3\11162000\I214645.raw

```
4 <110> APPLICANT: Short, Jay M.
6 <120> TITLE OF INVENTION: METHOD OF DNA SHUFFLING WITH
7 POLYNUCLEOTIDES PRODUCED BY BLOCKING OR INTERRUPTING A
8 SYNTHESIS OR AMPLIFICATION PROCESS
11 <130> FILE REFERENCE: DIVER1220-2
13 <140> CURRENT APPLICATION NUMBER: 09/214,645
14 <141> CURRENT FILING DATE: 1999-09-27
16 <150> PRIOR APPLICATION NUMBER: PCT/US97/12239
17 <151> PRIOR FILING DATE: 1997-07-09
19 <160> NUMBER OF SEQ ID NOS: 13
21 <170> SOFTWARE: FastSEQ for Windows Version 4.0
23 <210> SEQ ID NO: 1
24 <211> LENGTH: 5
25 <212> TYPE: PRT
26 <213> ORGANISM: Artificial Sequence
28 <220> FEATURE:
29 <223> OTHER INFORMATION: linker peptide
31 <400> SEQUENCE: 1
32 Gly Gly Gly Gly Ser
33 1 5
35 <210> SEQ ID NO: 2
36 <211> LENGTH: 30
37 <212> TYPE: DNA
38 <213> ORGANISM: Artificial Sequence
40 <220> FEATURE:
41 <223> OTHER INFORMATION: defined sequence kernel; n = A, T, G, or C; k = G
42 or T
44 <400> SEQUENCE: 2
W--> 45 nnknknknkn nnknknknkn knknknknkn 30
47 <210> SEQ ID NO: 3
48 <211> LENGTH: 30
49 <212> TYPE: DNA
50 <213> ORGANISM: Artificial Sequence
52 <220> FEATURE:
53 <223> OTHER INFORMATION: defined sequence kernel; n = A, T, G, or C; m = A
54 or C
56 <400> SEQUENCE: 3
W--> 57 nnnnnnnnnn nnnnnnnnnn mnnnnnnnnnn 30
59 <210> SEQ ID NO: 4
60 <211> LENGTH: 11
61 <212> TYPE: DNA
62 <213> ORGANISM: Artificial Sequence
64 <220> FEATURE:
65 <223> OTHER INFORMATION: oligonucleotide
67 <400> SEQUENCE: 4
68 tccaaacgta a 11
70 <210> SEQ ID NO: 5
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RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/214,645
 DATE: 11/16/2000
 TIME: 12:14:43

Input Set : A:\DIVER1220-2.TXT
 Output Set: N:\CRF3\11162000\I214645.raw

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71 <211> LENGTH: 58
72 <212> TYPE: DNA
73 <213> ORGANISM: Artificial Sequence
75 <220> FEATURE:
76 <223> OTHER INFORMATION: oligonucleotide; n = A, T, G, or C
78 <400> SEQUENCE: 5
W--> 79 nnnctannng ccatacgtcc aggttacgtt tggannngat cattaatcga acctttaa 58
81 <210> SEQ ID NO: 6
82 <211> LENGTH: 31
83 <212> TYPE: DNA
84 <213> ORGANISM: Artificial Sequence
86 <220> FEATURE:
87 <223> OTHER INFORMATION: oligonucleotide; n = A, T, G, or C
89 <400> SEQUENCE: 6
W--> 90 tccaaacgta acctggacgt atggcnnta g 31
92 <210> SEQ ID NO: 7
93 <211> LENGTH: 10
94 <212> TYPE: DNA
95 <213> ORGANISM: Artificial Sequence
97 <220> FEATURE:
98 <223> OTHER INFORMATION: oligonucleotide
100 <400> SEQUENCE: 7
101 aggttcgatt 10
103 <210> SEQ ID NO: 8
104 <211> LENGTH: 29
105 <212> TYPE: DNA
106 <213> ORGANISM: Artificial Sequence
108 <220> FEATURE:
109 <223> OTHER INFORMATION: oligonucleotide; n = A, T, G, or C
111 <400> SEQUENCE: 8
W--> 112 ttggannnga tcattaatcg aacctttaa 29
114 <210> SEQ ID NO: 9
115 <211> LENGTH: 25
116 <212> TYPE: DNA
117 <213> ORGANISM: Artificial Sequence
119 <220> FEATURE:
120 <223> OTHER INFORMATION: oligonucleotide; n = A, T, G, or C
122 <400> SEQUENCE: 9
W--> 123 aggttcgatt aatgatcnnn tccaa 25
125 <210> SEQ ID NO: 10
126 <211> LENGTH: 23
127 <212> TYPE: DNA
128 <213> ORGANISM: Artificial Sequence
130 <220> FEATURE:
131 <223> OTHER INFORMATION: oligonucleotide
133 <400> SEQUENCE: 10
134 agattaagga gtccgtaagg att 23
136 <210> SEQ ID NO: 11
137 <211> LENGTH: 17

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RAW SEQUENCE LISTING DATE: 11/16/2000
PATENT APPLICATION: US/09/214,645 TIME: 12:14:43

Input Set : A:\DIVER1220-2.TXT
Output Set: N:\CRF3\11162000\I214645.raw

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138 <212> TYPE: DNA
139 <213> ORGANISM: Artificial Sequence
141 <220> FEATURE:
142 <223> OTHER INFORMATION: oligonucleotide
144 <400> SEQUENCE: 11
145 taaggactcc ttaatct 17
147 <210> SEQ ID NO: 12
148 <211> LENGTH: 12
149 <212> TYPE: DNA
150 <213> ORGANISM: Artificial Sequence
152 <220> FEATURE:
153 <223> OTHER INFORMATION: oligonucleotide
155 <400> SEQUENCE: 12
156 aatccctacg ga 12
158 <210> SEQ ID NO: 13
159 <211> LENGTH: 10
160 <212> TYPE: DNA
161 <213> ORGANISM: Artificial Sequence
163 <220> FEATURE:
164 <223> OTHER INFORMATION: oligonucleotide
166 <400> SEQUENCE: 13
167 gactccctaa 10
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NOV 23 2000

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VERIFICATION SUMMARY

PATENT APPLICATION: US/09/214,645

DATE: 11/16/2000

TIME: 12:14:44

Input Set : A:\DIVER1220-2.TXT

Output Set: N:\CRF3\11162000\I214645.raw

L:45 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:2
L:45 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:2
L:45 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:2
L:57 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:3
L:57 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:3
L:57 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:3
L:79 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:5
L:79 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:5
L:79 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:5
L:90 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:6
L:90 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:6
L:90 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:6
L:112 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:8
L:112 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:8
L:112 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:8
L:123 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:9
L:123 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:9
L:123 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:9